

PROPORTION-AIR

PROPORTION-AIR SUPPLY

DESCRIPTION

Perfect for developing, testing and diagnosing pneumatic equipment, the Proportion-Air Supply fits onto a laboratory benchtop alongside other equipment like power supplies and oscilloscopes. Executing burst tests, creating flow curves and calibrating air-piloted regulators are just a few of the applications this rugged device can accomplish.

The compact, all-in-one unit replaces the need for separate regulators and flow gauges attached to needle valves, a common setup for pneumatic testing. An easy-to-read digital panel meters feature one output, Channel 2, to regulate flow and pressure at the same time, like the way a variable DC power supply regulates voltage and current. The other output, Channel 1, is pressure regulation.

The Supply works with shop air, instrument air or inert bottle gases. See below for additional specifications.



SPECIFICATIONS

Electrical

Supply voltage	120/240 VAC (50/60 Hz)
Supply current	1.2 A (max)

Mechanical

Media	Air, CO ₂ , Ar, He, N ₂ O*, O ₂ *, N ₂
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Supply pressure.....0 - 125% of range

Outlet pressure.....0 - 100% of range

Flow rate

Channel 1

@50 PSI outputFull command, 16.2 SCFM

@100 PSI output.....Full command, 28 SCFM

Channel 2

Set flow range.....1 - 10 SCFM

Port size.....4 x 1/4 NPT

Filtration recommended.....40 micron

Accuracy

Channel 1 - Pressure.....± 0.5% F.S.

Channel 2 - Pressure.....± 0.5% F.S.

Channel 2 - Flow.....± 4%

Linearity/Hysteresis

Channel 1 - Pressure.....± 0.5% F.S.

Repeatability

Channel 2 - Flow.....± 0.25%

Min. closed end volume

Channel 1.....3 cubic in.

Channel 2.....3 cubic in.

Physical

Operating temperature.....32°F (0°C) to 122°F (50°C)

Weight.....10.2 lbs

Housing.....Aluminum, Plastic Bezels

Connector.....IEC 320-C14 power connector

Wetted Parts

Elastomers.....Viton and Buna-N

Housing.....Anodized aluminum

Manifold.....Nickel-Plated Aluminum or Nickel-Plated Brass
(Channel 2 may have non-plated brass or anodized aluminum orifice)

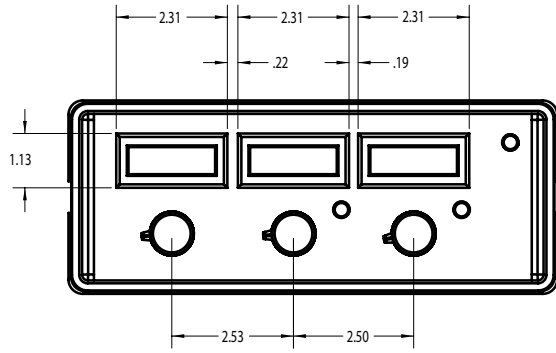
Valves.....430FR SS, Nickel-Plated Brass

Pressure transducer.....High temp polyamide, alumina ceramic, epoxy, RTV and silicon

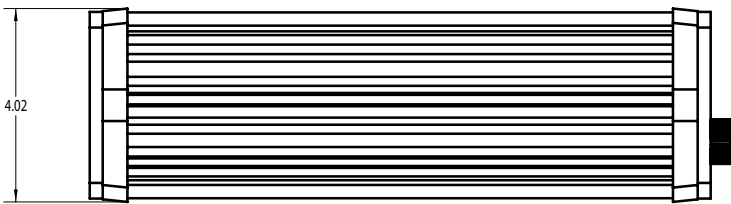
Other.....Nylon tubing used to connect manifolds, brass bulkhead fittings

* Please consult factory for application assistance.

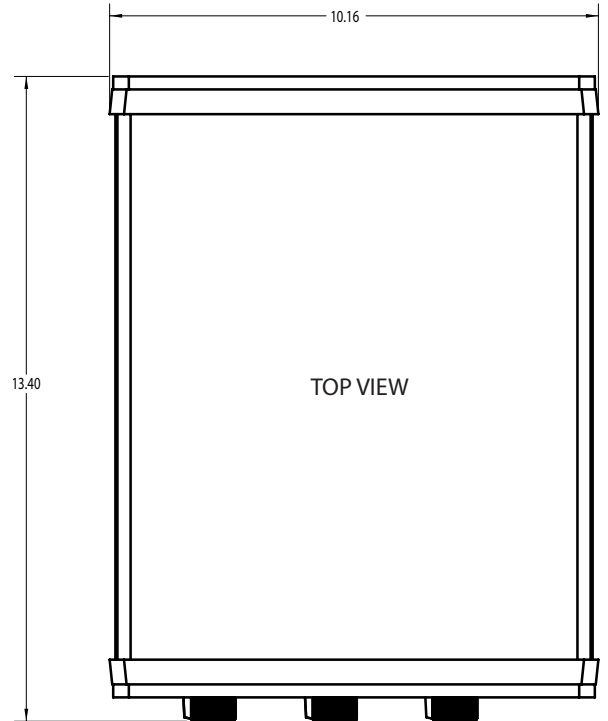
DIMENSIONS



FRONT PANEL



SIDE VIEW



TOP VIEW

Notes:
Dimensions are in inches.
Dimensions are for reference only.

CONFIGURATION

Proportion-Air Supply

Example Part Number	PAS	1	X	0	1	A	X	0	0	A	P	X	R	A	A
Section Reference ->		1	2	3	4	5	6	7	8	9	10	11	12	13	14

1	Type
1	Analog

2	Channel 1 Pressure Monitor
X	No analog monitor

3	Channel 1 Offset Pressure
0	Zero offset

4	Channel 1 Max Pressure
0	50 PSI
1	100 PSI
*Max pressure is set at factory during assembly. Not interchangeable after calibration.	

5	Channel 1 Pressure Unit
A	PSI

7	Channel 2 Offset Pressure
0	Zero offset

6	Channel 2 Pressure Monitor
X	No analog monitor

8	Channel 2 Max Pressure
0	50 PSI
1	100 PSI

9	Channel 2 Pressure Unit
A	PSI

10	Channel 2 Flow Type
P	Pressure Compensated

11	Channel 2 Flow Monitor
X	No analog monitor

12	Channel 2 Media
A	Air

13	Channel 2 Max Flow
A	1 - 10 SCFM
Maximum Flow Based on 10:1 Turn-down	

14	Channel 2 Flow Unit
A	SCFM